

GLASS IONOMER CEMENT

Abstract of the Disclosure

Resin-modified glass ionomer cements contain a polymer having a plurality of
5 acidic repeating units but being substantially free of polymerizable vinyl groups, a
polymer having a plurality of acidic repeating units and a plurality of polymerizable vinyl
groups, a fluoroaluminosilicate glass, a redox cure system that can initiate dark cure of the
vinyl groups, and water. The cements can be used without requiring a preliminary tooth
priming or conditioning step and without requiring a curing lamp. The cements offer ease
10 of mixing, convenient viscosity, convenient cure, good flexural strength, good adhesion to
dentin and enamel, and high fluoride release, even when cured in thick sections and in the
dark.

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